

## WHAT IS CLAIMED IS:

1. A syringe for use with an injector comprising a syringe retaining mechanism, the syringe comprising:
  - a body comprising a rear end and a front end;
  - a plunger movably disposed within the body;
  - at least one attachment member associated with the body, the at least one attachment member adapted to releasably engage the syringe retaining mechanism of the injector regardless of the orientation of the syringe with respect to the injector; and
  - an encoding device operable to provide syringe information to the injector.
2. The syringe of claim 1 wherein the at least one attachment member comprises an annular ridge disposed on the body.
3. The syringe of claim 1, further comprising one or more projections associated with the body, the one or more projections adapted to engage corresponding members of the syringe retaining mechanism to enable release of the syringe from the injector through rotational motion.
4. The syringe of claim 1 wherein the at least one attachment member comprises one or more tab members.
5. The syringe of claim 4 wherein each of the tab members comprises a first tab end attached to the body and a second tab end adapted to engage the syringe retaining mechanism of the injector.
6. The syringe of claim 4 wherein the tab members are resilient members.
7. The syringe of claim 4 wherein the tab members are integrally formed with the body.
8. The syringe of claim 1, further comprising a flange associated with the body and adapted to engage a corresponding surface of the injector when the syringe is releasably engaged therewith.

9. The syringe of claim 8 wherein the flange is adapted to substantially prevent fluid from entering the interior of the injector.

10. The syringe of claim 1 wherein the at least one attachment member is moved in an axial direction to releasably engage the injector.

11. The syringe of claim 1 wherein the at least one attachment member is moved in a vertical direction to releasably engage the injector.

12. The syringe of claim 1 wherein the at least one attachment member is associated with the rear end of the body.

13. The syringe of claim 1 wherein the at least one attachment member is associated with the front end of the body.

14. A syringe for use with an injector comprising a syringe retaining mechanism, the syringe comprising:

a body comprising a rearward end and a forward end;

a plunger movably disposed within the body;

at least one attachment member associated with the body; and

at least one rotation member comprising a recess formed in the body for releasably engaging a corresponding member of the syringe retaining mechanism of the injector.